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**SEARCH REQUEST FORM** Scientific and Technical Information Center - EIC2800  
Rev. 3/19/2007 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511

Date 4/25/07 Serial # 09/832,867 Priority Application Filing Date 4/17/00

Your Name M. Mims Examiner # 73172

AU 2822 Phone 292-1838 Room 5A39

In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPAT USPGPUB DWPI EPO Abs JPO Abs IBM TDB  
Other: Need before 6/30

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐  
Secondary Refs ☐ Foreign Patents ☐ Other ☐

If this is a "Fast & Focused Search" request, put a checkmark here:

And then please speak in-person immediately with the

EIC2800 Technical Information Specialist or with an EIC2800 Searcher.

A "Fast & Focused Search" is completed in 2 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patfr-2/siraapps/stic/npl/nplsearch.htm>.

In your own words, what is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1, 2, 4-10, 13, 14, 25-38

51-64

TFT

Problem: See pages 1 & 2  
Solution: " " 2-7

6,909,114

**Staff Use Only**

Searcher: M. Mims

Searcher Phone: 25928

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 6-28-07

Date Completed: 6-28-07

Searcher Prep/Rev Time: \_\_\_\_\_

Online Time: \_\_\_\_\_

**Type of Search**

Structure (#) \_\_\_\_\_

Bibliographic \_\_\_\_\_

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

**Vendors**

STN \_\_\_\_\_

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

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=> d his full

(FILE 'HOME' ENTERED AT 14:57:09 ON 28 JUN 2007)

FILE 'REGISTRY' ENTERED AT 14:57:28 ON 28 JUN 2007

L1 149 SEA ABB=ON PLU=ON N.TA/MF  
L2 456 SEA ABB=ON PLU=ON N TA/ELF  
L3 281 SEA ABB=ON PLU=ON N.TI/MF  
L4 3245 SEA ABB=ON PLU=ON N TI/ELF  
L5 1 SEA ABB=ON PLU=ON TUNGSTEN/CN

FILE 'CAPLUS' ENTERED AT 14:58:25 ON 28 JUN 2007

L6 42168 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4)  
L7 97561 SEA ABB=ON PLU=ON L5  
L8 5626 SEA ABB=ON PLU=ON L6 AND L7  
L9 302495 SEA ABB=ON PLU=ON TFT OR THIN FILM OR ACTIVE MATRIX? OR LCD  
L10 115058 SEA ABB=ON PLU=ON N(4A) (REGION OR AREA OR LAYER? OR LAMINA?  
OR SEMICONDUCT? OR IMPUR? OR SECTION?)  
L11 274859 SEA ABB=ON PLU=ON GATE OR SWITCH? OR BASIC(W) LOGIC? (W) ELEM?  
L12 65876 SEA ABB=ON PLU=ON ACTIVE(4A) (REGION OR AREA OR LAYER? OR  
LAMINA? OR SECTION? OR PORTION?)  
L13 997391 SEA ABB=ON PLU=ON ?RESIN? OR EPOX? OR POLYIMID?  
L14 12 SEA ABB=ON PLU=ON L8 AND L9 AND L10  
D IBIB ABS HITSTR HITIND 1-12  
L15 9544 SEA ABB=ON PLU=ON L6 AND TUNGSTEN  
L16 20 SEA ABB=ON PLU=ON L15 AND L9 AND L10  
L17 0 SEA ABB=ON PLU=ON L16 AND L13  
L18 9 SEA ABB=ON PLU=ON L16 AND L11  
L19 1 SEA ABB=ON PLU=ON L18 NOT L14  
D IBIB ABS HITSTR HITIND  
L20 26961 SEA ABB=ON PLU=ON (TIN OR TAN) AND (TUNGSTEN OR W)  
L21 0 SEA ABB=ON PLU=ON L20 AND L9 AND L10 AND L11 AND L13  
L22 3 SEA ABB=ON PLU=ON L20 AND L9 AND L10 AND L13  
L23 3 SEA ABB=ON PLU=ON L22 NOT (L14 OR L18 OR L19)  
D IBIB ABS HITSTR HITIND 1-3  
L24 7 SEA ABB=ON PLU=ON L16 NOT (L14 OR L18 OR L19 OR L23)  
D IBIB ABS HITSTR HITIND 1-7

FILE 'REGISTRY' ENTERED AT 15:15:43 ON 28 JUN 2007

L25 51852 SEA ABB=ON PLU=ON EPOXY RESIN/PCT  
L26 57994 SEA ABB=ON PLU=ON POLYIMIDE/PCT

FILE 'CAPLUS' ENTERED AT 15:21:09 ON 28 JUN 2007

L27 115710 SEA ABB=ON PLU=ON L25 OR L26  
L28 9 SEA ABB=ON PLU=ON L6 AND L7 AND L27  
L29 1 SEA ABB=ON PLU=ON L28 AND L9  
D IBIB ABS HITSTR HITIND  
L30 30380 SEA ABB=ON PLU=ON L8 OR L15 OR L20  
L31 0 SEA ABB=ON PLU=ON L30 AND L10 AND L11 AND L12 AND L13  
L32 3 SEA ABB=ON PLU=ON L30 AND L10 AND L11 AND L12  
L33 2 SEA ABB=ON PLU=ON L32 NOT (L14 OR L18 OR L19 OR L23 OR L24)  
D IBIB ABS HITSTR HITIND 1-2

FILE 'WPIX' ENTERED AT 15:28:04 ON 28 JUN 2007

L34 234209 SEA ABB=ON PLU=ON TFT OR THIN FILM OR ACTIVE MATRIX? OR LCD  
L35 54132 SEA ABB=ON PLU=ON N(4A) (REGION OR AREA OR LAYER? OR LAMINA?  
OR SEMICONDUCT? OR IMPUR? OR SECTION?)

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L36 1116615 SEA ABB=ON PLU=ON GATE OR SWITCH? OR BASIC(W) LOGIC? (W) ELEM?  
L37 56647 SEA ABB=ON PLU=ON ACTIVE (4A) (REGION OR AREA OR LAYER? OR  
LAMINA? OR SECTION? OR PORTION?)  
L38 935891 SEA ABB=ON PLU=ON ?RESIN? OR EPOX? OR POLYIMID?  
L39 11458 SEA ABB=ON PLU=ON (TIN OR TAN OR (TI OR TA) (W) (N OR NITRIDE))  
AND (W OR TUNGSTEN)  
L40 1 SEA ABB=ON PLU=ON L34 AND L35 AND L36 AND L37 AND L38 AND  
L39  
D IFULL

FILE 'WPIX' ENTERED AT 15:41:18 ON 28 JUN 2007

L41 2 SEA ABB=ON PLU=ON L35 AND L36 AND L37 AND L38 AND L39  
L42 1 SEA ABB=ON PLU=ON L41 NOT L40  
D IFULL  
L43 5 SEA ABB=ON PLU=ON L35 AND L36 AND L38 AND L39  
L44 3 SEA ABB=ON PLU=ON L43 NOT L41  
D IALL 1-3

FILE 'DPCI' ENTERED AT 15:45:56 ON 28 JUN 2007

L45 1 SEA ABB=ON PLU=ON US6909114/PN  
SEL PN.D PN.G

FILE 'WPIX' ENTERED AT 15:46:56 ON 28 JUN 2007

L46 84 SEA ABB=ON PLU=ON (US7161177/PN OR US7164171/PN OR US7169710/  
PN OR JP10104659/PN OR JP10233511/PN OR JP9191111/PN OR  
US4394182/PN OR US5528397/PN OR US5583369/PN OR US5705424/PN  
OR US5736750/PN OR US5830787/PN OR US7169656/PN OR US7223643/PN  
OR EP588370/PN OR EP589478/PN OR EP738012/PN OR GB2393576/PN  
OR JP10065181/PN OR JP10092576/PN OR JP10135468/PN OR JP1013546  
9/PN OR JP10294280/PN OR JP11191628/PN OR JP11345767/PN OR  
JP11354442/PN OR JP4258160/PN OR JP4369271/PN OR JP5102483/PN  
OR JP60127761/PN OR JP6148685/PN OR JP7130652/PN OR JP7235680/P  
N OR JP8078329/PN OR JP8264784/PN OR JP8274336/PN OR JP9293600/  
PN OR US2002134983/PN OR US4851363/PN OR US5217910/PN OR  
US5247190/PN OR US5323042/PN OR US5399502/PN OR US5401982/PN  
OR US5413945/PN OR US5508209/PN OR US5532176/PN OR US5594569/PN  
OR US5643826/PN OR US5686328/PN OR US5764206/PN OR US5923962/P  
N OR US5949107/PN OR US5962872/PN OR US6001714/PN OR US6030667/  
PN OR US6114715/PN OR US6133074/PN OR US6198133/PN OR US6222238  
/PN OR US6281552/PN OR US7115447/PN OR WO2003049227/PN OR  
WO9013148/PN OR EP1005094/PN OR GB2354882/PN OR GB2396743/PN  
OR JP10247735/PN OR JP3250632/PN OR JP9116167/PN OR US200313898  
5/PN OR US2004051142/PN OR US3933529/PN OR US5254490/PN OR  
US5358879/PN OR US5693959/PN OR US5719588/PN OR US5742363/PN  
OR US5912492/PN OR US5965919/PN OR US6008869/PN OR US6049092/PN  
OR US6087679/PN OR US6140667/PN OR US6165824/PN OR US6166396/P  
N OR US6166414/PN OR US6180957/PN OR US6274887/PN OR US6285042/  
PN OR US6307214/PN OR US6335541/PN OR US6348368/PN OR US6365933  
/PN OR US6479333/PN OR US6507069/PN OR US6515338/PN OR  
US6541294/PN OR US6590230/PN OR US6617644/PN OR US6646287/PN  
OR US6646287/PN OR US6664145/PN OR US6759678/PN OR US6773971/PN  
OR US6867431/PN OR US6900460/PN OR US6979603/PN OR US6992328/P  
N OR US7008828/PN OR US70  
L47 0 SEA ABB=ON PLU=ON L46 AND L34 AND L35 AND L39  
L48 0 SEA ABB=ON PLU=ON L46 AND L39  
L49 11 SEA ABB=ON PLU=ON L46 AND L35 AND L36  
L50 11 SEA ABB=ON PLU=ON L49 NOT (L41 OR L43)  
D IALL 1-11

Mary S. Mims EIC 2800 2-5928

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FILE 'INSPEC, COMPENDEX' ENTERED AT 15:58:01 ON 28 JUN 2007

L51 21404 SEA ABB=ON PLU=ON (TIN OR TAN)/ET  
L52 123331 SEA ABB=ON PLU=ON W/ET  
L53 1053 SEA ABB=ON PLU=ON L51 AND L52  
L54 499285 SEA ABB=ON PLU=ON L9  
L55 67877 SEA ABB=ON PLU=ON L10  
L56 646683 SEA ABB=ON PLU=ON L11  
L57 54877 SEA ABB=ON PLU=ON L12  
L58 166470 SEA ABB=ON PLU=ON L13  
L59 5590 SEA ABB=ON PLU=ON L39  
L60 5736 SEA ABB=ON PLU=ON L53 OR L59  
L61 1137 SEA ABB=ON PLU=ON L54 AND L60  
L62 26 SEA ABB=ON PLU=ON L55 AND L61  
L63 0 SEA ABB=ON PLU=ON L58 AND L62  
L64 5 SEA ABB=ON PLU=ON L56 AND L62  
L65 4 DUP REM L64 (1 DUPLICATE REMOVED)  
D IALL 1-4  
L66 21 SEA ABB=ON PLU=ON L62 NOT L64  
L67 10 SEA ABB=ON PLU=ON L66 AND PY>=2000  
L68 11 SEA ABB=ON PLU=ON L66 NOT L67  
L69 11 SEA ABB=ON PLU=ON L68 NOT L64  
L70 9 DUP REM L69 (2 DUPLICATES REMOVED)  
D IALL 1-9

FILE 'JAPIO, KOREAPAT' ENTERED AT 16:13:17 ON 28 JUN 2007

L71 168196 SEA ABB=ON PLU=ON L9  
L72 73986 SEA ABB=ON PLU=ON L10  
L73 829548 SEA ABB=ON PLU=ON L11  
L74 41084 SEA ABB=ON PLU=ON L12  
L75 668487 SEA ABB=ON PLU=ON L13  
L76 2219 SEA ABB=ON PLU=ON L39  
L77 7 SEA ABB=ON PLU=ON L71 AND L72 AND L76  
L78 7 DUP REM L77 (0 DUPLICATES REMOVED)  
L79 0 SEA ABB=ON PLU=ON L78 AND PY>=2000  
D L78 IALL 1-7